- --62. The method as claimed in claim 61 wherein said clamping circuit is directly connected to said power transformer.--
- --63. The method as claimed in claim 61 wherein said clamping circuit is coupled to a primary winding of said power transformer.--
- --64. The method as claimed in claim/61 wherein said power transformer has a center-tapped secondary winding.--
- --65. The method as claimed in claim 61 further comprising connecting a primary winding of said power transformer to an input of said power converter during a first cyclic interval of said power converter.--
- --66. The method as claimed in claim 61 further comprising a further synchronous rectification device, coupled to said power transformer, that is active during a first cyclic interval of said power converter.--
- --67. The method as claimed in claim 61 further comprising a rectification device, coupled to said power transformer, that is active during a first cyclic interval of said power converter.--

- --68. The method as claimed in claim 61 wherein said clamping circuit comprises a switching device connected in series with a capacitor.--
- --69. The method as claimed in claim 68 further comprising controlling said switching device with a control circuit.--
- --70. The method as claimed in claim 61/wherein said power converter operates in one of:
 - a forward mode,
 - a flyback mode, and
 - a forward/flyback mode .--
 - --71. A method of operating a power converter, comprising:

providing a power transformer having a plurality of windings;

coupling a synchronous rectification device, having a control terminal, to at least one of said plurality of windings;

coupling a clamping dircuit to said at least one of said plurality of windings; and limiting a voltage applied to said control terminal with said clamping circuit such that said synchronous rectification device is active for substantially all of a clamping interval.--

--72. The method as claimed in claim 71 wherein said clamping circuit is directly connected to said power transformer.--

- --73. The method as claimed in claim 71 wherein said clamping circuit is coupled to a primary winding of said power transformer.--
- --74. The method as claimed in claim 71 wherein said power transformer has a center-tapped secondary winding.--
- --75. The method as claimed in claim 71 further comprising connecting a primary winding of said power transformer to an input of said power converter during a first cyclic interval of said power converter.--
- --76. The method as claimed in claim 71 further comprising a further synchronous rectification device, coupled to said power transformer, that is active during a first cyclic interval of said power converter.--
- --77. The method as claimed in claim 71 further comprising a rectification device, coupled to said power transformer, that is active during a first cyclic interval of said power converter.--
- --78. The method as claimed in claim 71 wherein said clamping circuit comprises a switching device connected in series with a capacitor.--

- --79. The method as claimed in claim 78 further comprising controlling said switching device with a control circuit.--
- --80. The method as claimed in claim 71 wherein said power converter operates in one of:
 - a forward mode,
 - a flyback mode, and
 - a forward/flyback mode .--
 - --81. A method of operating a power converter, comprising:

providing a power transformer having a plurality of windings;

coupling a synchronous rectification device, having a control terminal, to at least one of said plurality of windings;

coupling a clamping circuit to said at least one of said plurality of windings; and limiting a voltage applied to said control terminal with said clamping circuit such that said synchronous rectification device conducts a load current for substantially all of a clamping interval.--

--82. The method as claimed in claim 81 wherein said clamping circuit is directly connected to said power transformer.--

- --83. The method as claimed in claim 81 wherein said clamping circuit is coupled to a primary winding of said power transformer.--
- --84. The method as claimed in claim 81 wherein/said power transformer has a center-tapped secondary winding.--
- --85. The method as claimed in claim 81/further comprising connecting a primary winding of said power transformer to an input of said power converter during a first cyclic interval of said power converter.--
- --86. The method as claimed in claim 81 further comprising a further synchronous rectification device, coupled to said power transformer, that is active during a first cyclic interval of said power converter.--
- --87. The method as claimed in claim 81 further comprising a rectification device, coupled to said power transformer, that is active during a first cyclic interval of said power converter.--
- --88. The method as claimed in claim 81 wherein said clamping circuit comprises a switching device connected in series with a capacitor.--

- --89. The method as claimed in claim 88 further comprising controlling said switching device with a control circuit.--
- --90. The method as claimed in claim 81 wherein said power converter operates in one of:
 - a forward mode,
 - a flyback mode, and
 - a forward/flyback mode .--
 - --91. A method of operating a power converter, comprising: providing a power transformer having a plurality of windings;

coupling a synchronous rectification device, having a control terminal responsive to a drive signal, to at least one of said plurality of windings;

coupling a clamping circuit to said at least one of said plurality of windings; and limiting said drive signal applied to said control terminal with said clamping circuit such that said drive signal is continuous for substantially all of a clamping interval.--

- --92. The method as claimed in claim 91 wherein said clamping circuit is directly connected to said power transformer.--
- --93. The method as claimed in claim 91 wherein said clamping circuit is coupled to a primary winding of said power transformer.--

- --94. The method as claimed in claim 91 wherein said power transformer has a center-tapped secondary winding.--
- --95. The method as claimed in claim 91 further comprising connecting a primary winding of said power transformer to an input of said power converter during a first cyclic interval of said power converter.--
- --96. The method as claimed in claim 91 further comprising a further synchronous rectification device, coupled to said power transformer, that is active during a first cyclic interval of said power converter.--
- --97. The method as claimed in claim 91 further comprising a rectification device, coupled to said power transformer that is active during a first cyclic interval of said power converter.--
- --98. The method as claimed in claim 91 wherein said clamping circuit comprises a switching device connected in series with a capacitor.--
- --99. The method as claimed in claim 98 further comprising controlling said switching device with a control circuit.--

--100. The method as claimed in claim 91 wherein said power converter operates in one of:

- a forward mode,
- a flyback mode, and
- a forward/flyback mode .--

--101. A method of operating a power/converter, comprising:

accepting a DC voltage at an input of said power converter;

providing current to a load coupled/to an output of said power converter;

transforming a voltage from said input to said output with a power transformer having at least one primary winding and at least one secondary winding;

periodically connecting said input to said at least one primary winding during a first cyclic interval of said power converter;

limiting said voltage across said at least one secondary winding with a clamping circuit during a clamping interval of said power converter; and

rectifying said voltage with a synchronous rectification device having a control terminal responsive to a signal across said at least one secondary winding such that said synchronous rectification device is active for substantially all of said clamping interval.--

--102. The method as claimed in claim 101 wherein said clamping circuit is directly connected to said power transformer.--

- --103. The method as claimed in claim 101 wherein said clamping circuit is coupled to said at least one primary winding of said power transformer.--
- --104. The method as claimed in claim 101 wherein said at least one secondary winding has a center-tap.--
- --105. The method as claimed in claim 101 further comprising a voltage limiting device coupled to said synchronous rectification device.--
- --106. The method as claimed in claim 101 further comprising a further synchronous rectification device, coupled to said power transformer, that is active during a first cyclic interval of said power converter.--
- --107. The method as claimed in claim 101 further comprising a rectification device, coupled to said power transformer that is active during a first cyclic interval of said power converter.--
- --108. The method as claimed in claim 101 wherein said clamping circuit comprises a switching device connected in series with a capacitor.--
- --109. The method as claimed in claim 108 further comprising controlling said switching device with a control circuit.--

--110. The method as claimed in claim 101 wherein said power converter operates in one

of:

a forward mode,

a flyback mode, and

a forward/flyback mode.--